

Science Book Publishing House, USA
Baku State University, Azerbaijan
Lipetsk State Technical University, Russian Federation
Academy of Federal Security Guard Service of the Russian
Federation, Orel, Russian Federation
Don State Technical University, Rostov-on-Don, Russian
Federation
Voronezh State Technical University, Russian Federation
Vologda State Technical University, Russian Federation

MODERN INFORMATIZATION PROBLEMS
IN SIMULATION AND SOCIAL
TECHNOLOGIES

Proceedings of the XVIII-th
International Open Science Conference
(Lorman, MS, USA, January 2013)



Science Book Publishing House

Lorman, MS, USA - 2013

Modern informatization problems in simulation and social technologies: Proceedings of the XVIII-th International Open Science Conference (Lorman, MS, USA, January 2013)/ Editor in Chief Dr. Sci., Prof. O. Ya. Kravets. - Lorman, MS, USA: Science Book Publishing House, 2013. – 152 p. (145-296).

ISBN 978-1-62174-013-1

Collected papers summarizing the results of the XVIII-th International Open Science Conference "Modern informatization problems in modeling and social technologies", held in November 2012 - January 2013. It contains information within the following areas: info-communications in education; information technologies in medicine; information systems and their applications.

Data gathered within collected papers may be useful to researchers and engineering technicians, whose work involves various aspects of modern society informatization, as well as to postgraduates and students studying subjects related to informatics and computer engineering.

Proceedings Editorial Board:

O.Ya. Kravets, Dr. Sci., Prof. (editor in chief, Science Book Publishing House, USA); **A.A. Aliyev**, Dr. Sci., Prof. (Baku State University, Azerbaijan); **S.L. Blumin**, Honored Scientist of Russian Federation, Dr. Sci., Prof. (Lipetsk State Technical University, Russian Federation); **E.V. Lebedenko**, Ph.D. (Academy of Federal Security Guard Service of the Russian Federation, Orel, Russian Federation); **A.D. Lukyanov**, Ph.D. (Don State Technical University, Rostov-on-Don, Russian Federation); **S.L. Podvalny**, Honored Scientist of Russian Federation, Dr. Sci., Prof. (Voronezh State Technical University, Russian Federation); **A.M. Vodovozov**, Ph.D. (Vologda State Technical University, Russian Federation)

ISBN 978-1-62174-013-1

Ó **Authors, 2013**

Preface

Dear Colleagues!

Present proceedings were published to summarize the results of the XVIII International Open Conference "Modern informatization problems". The conference was held through the joint efforts of Science Book Publishing House (USA), Voronezh State Technical University, Baku State University (Azerbaijan), Vologda State Technical University, Lipetsk State Technical University, Don State Technical University (Rostov-on-Don), and the Academy of Federal Security Guard Service of the Russian Federation (Orel), in November 2012 – January 2013.

It was decided to hold three thematically differentiated conferences within the main one - «Modern informatization problems in economics and safety», «Modern informatization problems in modeling and social technologies», «Modern informatization problems in the technological and telecommunication systems analysis and synthesis».

The conference was held to encourage exchange of experience between leading experts in utilization of information technologies in various spheres of science, engineering, and education. The conference followed the traditions established by its predecessors.

Representatives of leading research centers and educational institutions from some countries introduced the audience to the results of their research, which are available not only in this collected works, but on <http://www.sbook.ru/spi>.

Present book contain conference proceedings within the following areas:

- info-communications in education;
- information technologies in medicine;
- information systems and their applications.

Organizing Committee Chair,
Editor in Chief
Dr. Sci., Prof.

O.Ya. Kravets

Contents

Preface	147
1. Info-communications in education.....	150
Afanasyev V.V., Gabelko K.V. Electronic library system as the basis of the university information infrastructure.....	150
Artemov A., Parkalaba P., Nemykin I. Cooperation between the university's structural subdivisions and the scientific technological library for effective work with the readers of DSTU	153
Burkova I.V. Information technology in education - some problems and their solutions.....	155
Choporov O.N., Bolgov S.V., Kutashova L.A., Konovalova E.Y. Infobase formation technology for medical systems analysis and modeling	157
Choporova E.I. Efficiency increase techniques of engineers orientation in a foreign language information area	162
Dezhin V.V. On informatization of the course "Probability theory and mathematical statistics" for students of the speciality "Economics"	165
Kirgintseva N., Kigintsev M. New trends in facilitating autonomous learning at higher military educational institutions in Russia.....	168
Kravets O.Ja. Individual trajectory of informatics tutoring formation based on the adaptive control technology: experienced and experimental work results.....	170
Kustov A.I., Sklyrov V.I. Problems of development and structure of the uniform information automated system in the field of education services.....	178
Muradova G. Advantages of Kinect device in interactive education process...	184
Piatayeva S.A., Naumov N.V., Medvedeva L.I., Agarkova M.A. Information technologies use for the rationalization of the medical aid for pregnant women with asiderotic anemia.....	188
Shulga T., Mitrofanov A., Valyavskiy V., Danilov N., Murzabekov A. Interactive educational stand for studying principles of computing machines operation.....	192
Zaslavskaya O.Yu. Didactics of governance in conditions of education informatization	197
Zaslavsky A.A. Didactic potential of cloud technology different types for computer science differentiate learning	210
Zhemchuzhnikov D.G. Principles of construction of a distance course "Programming training for students through the creation of computer games"	217
Шадрин И.В., Дьячук И.П., Кудрявцев В.С. Рефлексивное управление и диагностика самооценки учебной деятельности.....	223

2. Information technologies in medicine	229
Pozhidaeva A.S. Diagnostics of dysbioses using modern informational technologies.....	229
Shakeev K.T., Fazylov K.K. Mathematical description of distension of abdominal raphe aponeurosis	232
Sheludyakov A. Analysis of possibility to implement the concept of electronic medical record using SAP HANA	234
Vlasenko A. Data mining in medical research.....	240
Карабаев М., Абдуманонов А., Махмудов Н.И. Об интеллектуализации медицинских информационных систем.....	244
3. Information systems and their applications	251
Baranov I.J., Boev A.V., Mustafin M.I. The architecture of inquiry/response accompaniment system of parametric and structural adjustment of computer systems on the service life stages.....	251
Blyumin S.L. Multi-agent systems as a special class of control systems	253
Borodulin A.N., Zalozhnev A.Yu., Shuremov E.L. Progress of methodology of development enterprise information control systems	257
Chuykova E.N. The information system of the maintenance the net users	262
Ivaschenko A.V., Peysakhovich D.G., Yumashev V.L. Management by conditions in enterprise integrated information space	265
Kirpichev I.M., Lebedenko E.V.....	269
Development mandatory access setup technique for protected information systems, based on Astra Linux Special Edition operating system	269
Mitrofanov A. Method for reducing the computational cost of the spam detection process	272
Pitruk P.E. Automated system development for support administration process of Astra Linux Special Edition operating system security tools.....	276
Rozov A.S., Zyubin V.E. Process-oriented approach in mcu programming	279
Special transaction processor application for the productivity of transaction processing increase and optimization in a specialized information system.....	283
Taganov A.I., Psoyants V.G. The algorithm of providing risk stability of software project according to quality criteria	289
Vorobiev A.A., Garmaev A.S. Analysis of modeling tool with open license for use as an alternative for solving problems of analytical processing of information	292
Author's index	295

Author's index

Afanasyev V.V.	150	Rozov A.S.	279
Agarkova M.A.	188	Shakeev K.T.	232
Artemov A.	153	Sheludyakov A.	234
Baranov I.J.	251	Shulga T.	192
Blyumin S.L.	253	Shuremov E.L.	257
Boev A.V.	251	Sklyrov V.I.	178
Bolgov S.V.	157	Taganov A.I.	289
Borodulin A.N.	257	Valyavskiy V.	192
Burkova I.V.	155	Vlasenko A.	240
Choporov O.N.	157	Vorobiev A.A.	292
Choporova E.I.	162	Yumashev V.L.	265
Chuykova E.N.	262	Zalozhnev A.Yu.	257
Danilov N.	192	Zaslavskaya O.Yu.	197
Dezhin V.V.	165	Zaslavsky A.A.	210
Fazylov K.K.	232	Zhemchuzhnikov D.G.	217
Gabelko K.V.	150	Zyubin V.E.	279
Garmaev A.S.	292	Абдуманонов А.	244
Ivaschenko A.V.	265	Дьячук И.П.	223
Kigintsev M.	168	Карабаев М.	244
Kirgintseva N.	168	Кудрявцев В.С.	223
Kirpichev I.M.	269	Махмудов Н.И.	244
Konovalova E.Y.	157	Шадрин И.В.	223
Kravets O.Ja.	170		
Kustov A.I.	178		
Kutashova L.A.	157		
Lebedenko E.V.	269		
Medvedeva L.I.	188		
Mitrofanov A.	192		
Mitrofanov A.	272		
Muradova G.	184		
Murzabekov A.	192		
Mustafin M.I.	251		
Naumov N.V.	188		
Nemykin I.	153		
Parkalaba P.	153		
Peysakhovich D.G.	265		
Piatayeva S.A.	188		
Pitruk P.E.	276		
Pozhidaeva A.S.	229		
Psoyants V.G.	289		

Science issue

**MODERN INFORMATIZATION PROBLEMS IN MODELING AND
SOCIAL TECHNOLOGIES**

Proceedings of the 18-th International Open Science Conference

Issue is published in author's edition

Cover designed by Sofia A. Kravets.

Assigned to print 10.01.2013. Format 60x84 1/16.
CPP 9,5. Order 0000. Circulation 500.

Science Book Publishing House
6698 Red Lick Rd., Lorman, Mississippi, 39096 USA
<http://www.sbook.pro/>